ReadMe: Using GIMP to Digitize (Selecting Pixels by Color)

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Preliminary Summary: Please do not cite or circulate without permission.

STEP BY STEP Here's How to Do It:
https://doc.qgis.org/testing/en/docs/training_manual/forestry/stands_digitazing.html
Photo Software: GIMP (GNU Image Manipulation Program)(Open Source)
https://www.gimp.org/
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STEP BY STEP SUMMARY

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FOR `POINT` DATA:

GIMP
Select pixel by color
Merge files of different shades
Export to new file (.tif)

GIS
Georeference .tif
Convert raster (.tif) to vector (.shp)
`Polygon Centroid`

continue as normal
`Join attributes by location`, `Count points in polygon`, `Categorized` layer styling, etc.

FOR `LINE` DATA:

GIMP
Select pixel by color
Merge files of different shades
Export to new file (.tif)

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GIS

Georeference .tif

You want to make the lines BEFORE you convert to vector

`Raster Calculator`:

1.Input: georeferenced .tif

2. Band (DOUBLE CHECK ON TRANSPARENCY SETTINGS, 1948 hog map was Band 4: Alpha)

3. Use for instance the following formulae in `Calculation in gdalnumeric syntax ...`:

`1*(A>0)`

4. `Set output nodata value` to 0

5. Set `Output raster type` to Byte (fixes the data type issue)

Helpful online threads about raster calculator:
(https://gis.stackexchange.com/questions/197145/error-in-r-thin-qgis-grass-input-raster-must-be-of-type-cell)
(https://gis.stackexchange.com/questions/251360/converting-raster-to-vector-by-generating-center-lines/251361)

`R.thin` command:

Input: `Calculated` layer from previous step

`R.to.vect` command:

Input: `Thinned` layer from previous step

Output: line

Should make lines from pixels!

continue as normal

`Join attributes by location, Add geometric attributes`, etc.